EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L11	36	123/193.2.ccls. and ((protru$5 or bottleneck) same (cylinder near2 (liner or sleeve or insert)))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/04/07 15:02
L12	7	("3165983" | "4221196" | "5291862" | "5749331" | "6123052" | "6298818").PN. OR ("6920859").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/07 15:03
S2	3	("20030000086" | "4419971").PN.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 14:11
S3	1	("6182629").PN.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 14:13
S4	1180	123/193.2.ccls. or 29/888.061.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 15:57
S5	6219	((cylinder near4 (sleeve or liner)) same (undercut or segment or project$3 or elevat$3 or thickness or var$4 or constant or depth))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 16:00
S6	224	S4 and S5	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 16:00
S7	17	("3885959" | "4155756" | "4297976" | "4808374").PN. OR ("4959276").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:30
S8	19	("1896098" | "2126089" | "3112541" | "3276082" | "4023613" | "4903652" | "5005469").PN. OR ("5291862").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:43
S9	7	("3165983" | "4221196" | "5291862" | "5749331" | "6123052" | "6298818").PN. OR ("6920859").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:44
S10	13	("3165983" | "5189992" | "5291862" | "6123052").PN. OR ("6298818").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:44
S11	11	("3382858" | "3641882" | "4153983" | "4505234" | "4905642" | "4936262" | "5562073" | "5749331" | "6123052" | "6298818").PN. OR ("7273029").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:45
S12	10	(("5537969") or ("5251578") or ("5207189") or ("5207188") or ("5199390") or ("5189992") or ("5176113") or ("5005469") or ("4983652") or ("1321792")).PN.	US-PGPUB; USPAT	OR	OFF	2008/10/23 16:47
S13	6	("2810378").PN. OR ("5207188").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:47
S14	12	("3659569" | "3672263" | "4202310" | "4221196" | "4640240" | "4794884" | "5086733").PN. OR ("5189992").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:49
S15	7	("4469060" | "4903652" | "5291862" | "5357921" | "5537969").PN. OR ("5732671").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 16:57

S16	23	("0991404" | "1347476" | "3620137" | "4370788" | "4393821" | "4495907" | "5005469" | "5255433" | "5291862" | "5315970" | "5320158" | "5363821" | "5419037").PN. OR ("5566450").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 17:03
S17	8	("3768290" | "5894753" | "5941118" | "6123052" | "6178802" | "6519848" | "6640765").PN. OR ("6748655").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 17:17
S18	50	US-5522686-$.DID. OR US-20050082190-$.DID. OR US-4280597-$.DID. OR US-4484678-$.DID. OR US-6041559-$.DID. OR US-6062755-$.DID. OR US-5863470-$.DID. OR US-4343753-$.DID. OR US-4371148-$.DID. OR US-4865895-$.DID. OR US-20070209627-$.DID. OR US-4465040-$.DID. OR US-4915629-$.DID. OR US-4606406-$.DID. OR US-5347347-$.DID. OR US-5563690-$.DID. OR US-4915436-$.DID. OR US-4526410-$.DID. OR US-4998881-$.DID. OR US-5299884-$.DID. OR US-4093413-$.DID. OR US-4280598-$.DID. OR US-4285178-$.DID. OR US-4454676-$.DID. OR US-4534531-$.DID. OR US-4607821-$.DID. OR US-4617070-$.DID. OR US-4941463-$.DID. OR US-5000612-$.DID. OR US-5014572-$.DID. OR US-5022461-$.DID. OR US-5176497-$.DID. OR US-5244236-$.DID. OR US-5291862-$.DID. OR US-5474525-$.DID. OR US-5505499-$.DID. OR US-5562073-$.DID. OR US-5645271-$.DID. OR US-5661852-$.DID. OR US-5876152-$.DID. OR US-5882043-$.DID. OR US-6014403-$.DID. OR US-6086111-$.DID. OR US-6315745-$.DID. OR US-20010026036-$.DID. OR US-4611933-$.DID. OR US-4366809-$.DID. OR US-4771738-$.DID. OR US-5452834-$.DID. OR US-5731656-$.DID.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/23 17:45
S19	7	S4 and (arc$1shaped)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 17:52
S20	15	S4 and elliptical	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 17:58
S21	184	S4 and (project$3 or under$1cut)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 18:00
S22	16	S21 and (gravity or aluminum$1silicon or (spin near3 cast$3))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 18:02
S23	899	123/193.2.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 18:17
S24	22	S23 and ((liner or sleeve) same (arc or elliptical or ellipse or oval or non $1circular))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 18:19

S25	14	29/888.061.ccls. AND ((liner or sleeve) same (arc or elliptical or ellipse or oval or non$1circular))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 18:21
S26	40	29/888.061.ccls. AND ((arc or elliptical or ellipse or oval or non$1circular))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/23 18:22
S27	331	29/888.061.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/24 12:34
S28	16	("4068645" | "4297976" | "4846116" | "5255433" | "5303682" | "5387272" | "5421397" | "5462108" | "5537969").PN. OR ("5860469").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/24 15:13
S29	37	(cylinder same liner) and undercut and arc	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/27 13:27
S30	28	(cylinder near3 (sleeve or liner)) same ((varied or variable) near4 (thickness or region))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/27 14:01
S31	37	("1347476" | "2144928" | "2737171" | "2855911" | "3069209" | "3073290" | "3215131" | "3853099" | "3903951" | "4003422" | "4224727").PN. OR ("4630345").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/27 15:46
S32	285	(cylinder with (liner or sleeve) same (oval $1shape$1 or oval or non$1circular or ellipse or ellitical)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/27 16:09
S33	23	(elliptical or ellipse or non$1circular or oval) same liner same cylinder same engine	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/27 17:27
S34	14	("2974541" | "3315573" | "3568573" | "4399783" | "4562799" | "4582028" | "4616603" | "4796572" | "5768780" | "5927243" | "6123052" | "6182629").PN. OR ("6557513").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/27 17:43
S35	15	("1958948" | "2007871" | "2131228" | "3179053" | "3737258" | "4490098" | "4811716" | "5209208" | "Re20573").PN. OR ("5322423").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/27 17:54
S36	1	("5929405").PN.	US-PGPUB; USPAT	OR	OFF	2008/10/28 09:51
S37	1	("6182629").PN.	US-PGPUB; USPAT	OR	OFF	2008/10/28 09:54
S38	9	("3165983" | "3276082" | "5829405" | "5958520" | "6044820").PN. OR ("6182629").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/28 09:54
S39	2	(cylinder near3 (sleeve or liner)) same (rough$1cast$3)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 10:06
S40	11	("2783748" | "3046952" | "4385595").PN. OR ("4616603").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/28 10:31

S41	22	("3403661" | "3818878" | "3973429" | "4034723" | "4046114" | "4244330" | "4305348" | "4440118" | "4562799" | "4616603" | "4638769" | "4844030" | "4867118" | "5048468" | "5150668" | "5251579" | "5299538" | "5343837" | "5575251" | "5752480").PN. OR ("6328001").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/28 10:32
S42	87	("1226820" | "1396890" | "1420684" | "1607265" | "1643645" | "1665192" | "2010183" | "2037354" | "2078499" | "2148639" | "2338183" | "2405847" | "2511823" | "2635591" | "2748757" | "2783749" | "2851020" | "2855910" | "2951472" | "3086505" | "3315573" | "3400695" | "3403661" | "3418993" | "3568573" | "3618575" | "3628427" | "3653369" | "3714931" | "3745980" | "3853099" | "3882842" | "3996913" | "4082068" | "4095803" | "4131093" | "4147140" | "4237847" | "4244330" | "4284037" | "4294203" | "4305348" | "4369627" | "4399783" | "4474144" | "4494492" | "4505234" | "4523555" | "4562799" | "4588309" | "4601265" | "4638769" | "4759317" | "4791891" | "4926801" | "5867119").PN. OR ("5251579").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/28 10:34
S43	18	("3800751" | "4187767" | "4244330" | "4284037" | "4294203" | "4926801" | "5176113" | "5189992" | "5199390" | "5207188" | "5207189" | "5211137" | "5233947" | "5251578" | "5251579" | "5386805" | "5402754").PN. OR ("5979374").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/28 10:36
S44	69	(US-20030000086-$ or US-20030056645-$ or US-20030192501-$ or US-20050150476-$ or US-20050161014-$ or US-20070209627-$ or US-20060156917-$ or US-20020162219-$).did. or (US-4419971-$ or US-3657078-$ or US-4155756-$ or US-4258084-$ or US-4616603-$ or US-4706417-$ or US-4770133-$ or US-4903652-$ or US-4921734-$ or US-4959276-$ or US-5005469-$ or US-5291862-$ or US-6920859-$ or US-6298818-$ or US-7273029-$ or US-6123052-$ or US-5537969-$ or US-5207188-$ or US-2810378-$ or US-5189992-$ or US-5086733-$ or US-4905642-$ or US-6988480-$ or US-5732671-$ or US-5566450-$ or US-5671532-$).did. or (US-6640765-$ or US-6748655-$ or US-6802121-$ or US-6637108-$ or US-7398596-$ or US-5860469-$ or US-6557513-$ or US-6182629-$ or US-5322423-$ or US-5142863-$ or US-5033427-$ or US-4630345-$ or US-4562799-$ or US-3695150-$ or US-6328001-$ or US-5251579-$ or US-6799541-$ or US-6357400-$ or US-	US-PGPUB; USPAT; USOCR; EPO; JPO	ADJ	ON	2008/10/28 14:25

		5979374-$).did. or (US-2810378-$).did. or (GB-2168632-$ or EP-554575-$ or CH-685575-$).did. or (JP-61155644-$ or JP-02241953-$ or JP-03047642-$ or JP-61142350-$ or JP-04076252-$ or JP-62265453-$ or JP-62261648-$ or JP-61085557-$ or JP-60196235-$ or JP-60096788-$ or JP-59194061-$).did.				
S47	0	S44 and (spin$1cast$3)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:05
S48	16	(liner or sleeve) same spin$1cast$3	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:06
S49	1	("5980792").PN.	US-PGPUB; USPAT	OR	OFF	2008/10/28 15:07
S50	112	123/41.28	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:50
S51	349	123/41.29	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:50
S52	86	123/41.67	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:50
S53	339	123/41.72	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:51
S54	241	123/41.79	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:51
S55	80	123/41.81	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:51
S56	25	S50 and (liner)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 15:53
S57	26	S51 and (liner)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/28 16:06
S66	44	FUGANTI.IN.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/29 10:38
S67	6	liner same spin$1cast$3	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/29 11:40
S68	1	("6675750").PN.	US-PGPUB; USPAT	OR	OFF	2008/10/29 11:44
S69	286	(123/41.84).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/10/29 11:48
S70	9	("3481316" | "4706616" | "4794884" | "4926801" | "5199390" | "5207189" | "6357400").PN. OR ("6675750").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/29 13:09
S71	1	("20030000086").PN.	US-PGPUB; USPAT	OR	OFF	2008/10/29 13:55

S72	1	"20030084567"	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2008/10/29 14:35
S73	11803	(cylinder near2 sleeve)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:45
S74	473	S73 and "29"/.clas.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:46
S75	239	S74 and (projection or flatt$5 or segment or region or rough$4)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:47
S76	9	S75 and crankcase	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:47
S77	0	22/888.061,888.06.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:49
S78	696	29/888.061,888.06.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:49
S79	196	S78 and (cylinder near (liner or sleeve))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:49
S80	2499	123/193.1,193.2,193.3,41.84.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:51
S81	611	S80 and (cylinder near (liner or sleeve))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:51
S82	282	S80 and (cylinder near2 (liner or sleeve)).ti.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 09:51
S83	2	"US 20070209627"	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2009/03/31 10:01
S84	0	("2005/0150476").URPN.	USPAT	ADJ	ON	2009/03/31 10:42
S85	520	123/41.74.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 11:08
S86	6	S85 and (cylinder near2 (liner or sleeve)).ti.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 11:08
S87	83	S85 and (cylinder near2 (liner or sleeve))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 11:08
S88	2	((("3561104") or ("6468673")).PN.	US-PGPUB; USPAT	OR	OFF	2009/03/31 11:29
S89	3	("4005991" | "6286210").PN. OR ("6468673").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/03/31 11:32
S90	531	428/600.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 11:36

S91	1	S90 and ((cast near2 iron) same (insert or liner))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 11:37
S92	28	S90 and (insert or liner)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 11:37
S93	0	PCT/US06/23749	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 18:39
S94	1	"0623749"	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/03/31 18:40
S95	0	PCTUS0623749	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/31 18:40
S96	1	("20060213465").PN.	US-PGPUB; USPAT	OR	OFF	2009/04/07 09:08
S97	2	(("6298818") or ("6123052")).PN.	US-PGPUB; USPAT	OR	OFF	2009/04/07 10:02
S98	8	(("5251578") or ("5207189") or ("5207188") or ("5199390") or ("5189992") or ("5176113") or ("4983652") or ("1321792")).PN.	US-PGPUB; USPAT	OR	OFF	2009/04/07 10:04

4/ 7/ 2009 3:36:49 PM
C:\ Documents and Settings\ hnguyen34\ My Documents\ EAST\ Workspaces\ 10589792_Cylinder Sleeve with shapes of sleeve, casting methods.wsp